Figure 1:

Nucleotide and Deduced Amino Acid Sequence of Human VR2

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CACGAGGCCGACGCGCAGCTGGGAGGAAGACAGGACCCTTGACATCTCCATCTGCACAGA

GGTCCTGGCTGGACCGAGCAGCCTCCTCCTCCTAGGATGACCTCACCCTCCAGCTCTCCA
                                        M  T  S  P  S  S  S  P

GTTTTCAGGTTGGAGACATTAGATGGAGGCCAAGAAGATGGCTCTGAGGCGGACAGAGGA
V  F  R  L  E  T  L  D  G  G  Q  E  D  G  S  E  A  D  R  G

AAGCTGGATTTTGGGAGCGGGCTGCCTCCCATGGAGTCACAGTTCCAGGGCGAGGACCGG
K  L  D  F  G  S  G  L  P  P  M  E  S  Q  F  Q  G  E  D  R

AAATTCGCCCCTCAGATAAGAGTCAACCTCAACTACCGAAAGGGAACAGGTGCCAGTCAG
K  F  A  P  Q  I  R  V  N  L  N  Y  R  K  G  T  G  A  S  Q

CCGGATCCAAACCGATTTGACCGAGATCGGCTCTTCAATGCGGTCTCCCGGGGTGTCCCC
P  D  P  N  R  F  D  R  D  R  L  F  N  A  V  S  R  G  V  P

GAGGATCTGGCTGGACTTCCAGAGTACCTGAGCAAGACCAGCAAGTACCTCACCGACTCG
E  D  L  A  G  L  P  E  Y  L  S  K  T  S  K  Y  L  T  D  S

GAATACACAGAGGGCTCCACAGGTAAGACGTGCCTGATGAAGGCTGTGCTGAACCTTAAG
E  Y  T  E  G  S  T  G  K  T  C  L  M  K  A  V  L  N  L  K

GACGGAGTCAATGCCTGCATTCTGCCACTGCTGCAGATCGACAGGGACTCTGGCAATCCT
D  G  V  N  A  C  I  L  P  L  L  Q  I  D  R  D  S  G  N  P

CAGCCCCTGGTAAATGCCCAGTGCACAGATGACTATTACCGAGGCCACAGCGCTCTGCAC
Q  P  L  V  N  A  Q  C  T  D  D  Y  Y  R  G  H  S  A  L  H

ATCGCCATTGAGAAGAGGAGTCTGCAGTGTGTGAAGCTCCTGGTGGAGAATGGGGCCAAT
I  A  I  E  K  R  S  L  Q  C  V  K  L  L  V  E  N  G  A  N

GTGCATGCCCGGGCCTGCGGCCGCTTCTTCCAGAAGGGCCAAGGGACTTGCTTTTATTTC
V  H  A  R  A  C  G  R  F  F  Q  K  G  Q  G  T  C  F  Y  F

GGTGAGCTACCCCTCTCTTTGGCCGCTTGCACCAAGCAGTGGGATGTGGTAAGCTACCTC
G  E  L  P  L  S  L  A  A  C  T  K  Q  W  D  V  V  S  Y  L

CTGGAGAACCCACACCAGCCCGCCAGCCTGCAGGCCACTGACTCCCAGGGCAACACAGTC
L  E  N  P  H  Q  P  A  S  L  Q  A  T  D  S  Q  G  N  T  V

CTGCATGCCCTAGTGATGATCTCGGACAACTCAGCTGAGAACATTGCACTGGTGACCAGC
L  H  A  L  V  M  I  S  D  N  S  A  E  N  I  A  L  V  T  S

ATGTATGATGGGCTCCTCCAAGCTGGGGCCCGCCTCTGCCCTACCGTGCAGCTTGAGGAC
M  Y  D  G  L  L  Q  A  G  A  R  L  C  P  T  V  Q  L  E  D

ATCCGCAACCTGCAGGATCTCACGCCTCTGAAGCTGGCCGCCAAGGAGGGCAAGATCGAG
I  R  N  L  Q  D  L  T  P  L  K  L  A  A  K  E  G  K  I  E

ATTTTCAGGCACATCCTGCAGCGGGAGTTTTCAGGACTGAGCCACCTTTCCCGAAAGTTC
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I  F  R  H  I  L  Q  R  E  F  S  G  L  S  H  L  S  R  K  F

ACCGAGTGGTGCTATGGGCCTGTCCGGGTGTCGCTGTATGACCTGGCTTCTGTGGACAGC
T  E  W  C  Y  G  P  V  R  V  S  L  Y  D  L  A  S  V  D  S

TGTGAGGAGAACTCAGTGCTGGAGATCATTGCCTTTCATTGCAAGAGCCCGCACCGACAC
C  E  E  N  S  V  L  E  I  I  A  F  H  C  K  S  P  H  R  H

CGAATGGTCGTTTTGGAGCCCCTGAACAAACTGCTGCAGGCGAAATGGGATCTGCTCATC
R  M  V  V  L  E  P  L  N  K  L  L  Q  A  K  W  D  L  L  I

CCCAAGTTCTTCTTAAACTTCCTGTGTAATCTGATCTACATGTTCATCTTCACCGCTGTT
P  K  F  F  L  N  F  L  C  N  L  I  Y  M  F  I  F  T  A  V

GCCTACCATCAGCCTACCCTGAAGAAGCAGGCCGCCCCTCACCTGAAAGCGGAGGTTGGA
A  Y  H  Q  P  T  L  K  K  Q  A  A  P  H  L  K  A  E  V  G

AACTCCATGCTGCTGACGGGCCACATCCTTATCCTGCTAGGGGGGATCTACCTCCTCGTG
N  S  M  L  L  T  G  H  I  L  I  L  L  G  G  I  Y  L  L  V

GGCCAGCTGTGGTACTTCTGGCGGCGCCACGTGTTCATCTGGATCTCGTTCATAGACAGC
G  Q  L  W  Y  F  W  R  R  H  V  F  I  W  I  S  F  I  D  S

TACTTTGAAATCCTCTTCCTGTTCCAGGCCCTGCTCACAGTGGTGTCCCAGGTGCTGTGT
Y  F  E  I  L  F  L  F  Q  A  L  L  T  V  V  S  Q  V  L  C

TTCCTGGCCATCGAGTGGTACCTGCCCCTGCTTGTGTCTGCGCTGGTGCTGGGCTGGCTG
F  L  A  I  E  W  Y  L  P  L  L  V  S  A  L  V  L  G  W  L

AACCTGCTTTACTATACACGTGGCTTCCAGCACACAGGCATCTACAGTGTCATGATCCAG
N  L  L  Y  Y  T  R  G  F  Q  H  T  G  I  Y  S  V  M  I  Q

AAGGTCATCCTGCGGGACCTGCTGCGCTTCCTTCTGATCTACTTAGTCTTCCTTTTCGGC
K  V  I  L  R  D  L  L  R  F  L  L  I  Y  L  V  F  L  F  G

TTCGCTGTAGCCCTGGTGAGCCTGAGCCAGGAGGCTTGGCGCCCCGAAGCTCCTACAGGC
F  A  V  A  L  V  S  L  S  Q  E  A  W  R  P  E  A  P  T  G

CCCAATGCCACAGAGTCAGTGCAGCCCATGGAGGGACAGGAGGACGAGGGCAACGGGGCC
P  N  A  T  E  S  V  Q  P  M  E  G  Q  E  D  E  G  N  G  A

CAGTACAGGGGTATCCTGGAAGCCTCCTTGGAGCTCTTCAAATTCACCATCGGCATGGGC
Q  Y  R  G  I  L  E  A  S  L  E  L  F  K  F  T  I  G  M  G

GAGCTGGCCTTCCAGGAGCAGCTGCACTTCCGCGGCATGGTGCTGCTGCTGCTGCTGGCC
E  L  A  F  Q  E  Q  L  H  F  R  G  M  V  L  L  L  L  L  A

TACGTGCTGCTCACCTACATCCTGCTGCTCAACATGCTCATCGCCCTCATGAGCGAGACC
Y  V  L  L  T  Y  I  L  L  L  N  M  L  I  A  L  M  S  E  T

GTCAACAGTGTCGCCACTGACAGCTGGAGCATCTGGAAGCTGCAGAAAGCCATCTCTGTC
V  N  S  V  A  T  D  S  W  S  I  W  K  L  Q  K  A  I  S  V

CTGGAGATGGAGAATGGCTATTGGTGGTGCAGGAAGAAGCAGCGGGCAGGTGTGATGCTG
L  E  M  E  N  G  Y  W  W  C  R  K  K  Q  R  A  G  V  M  L

ACCGTTGGCACTAAGCCAGATGGCAGCCCGGATGAGCGCTGGTGCTTCAGGGTGGAGGAG
T  V  G  T  K  P  D  G  S  P  D  E  R  W  C  F  R  V  E  E
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GTGAACTGGGCTTCATGGGAGCAGACGCTGCCTACGCTGTGTGAGGACCCGTCAGGGGCA
V  N  W  A  S  W  E  Q  T  L  P  T  L  C  E  D  P  S  G  A

GGTGTCCCTCGAACTCTCGAGAACCCTGTCCTGGCTTCCCCTCCCAAGGAGGATGAGGAT
G  V  P  R  T  L  E  N  P  V  L  A  S  P  P  K  E  D  E  D

GGTGCCTCTGAGGAAAACTATGTGCCCGTCCAGCTCCTCCAGTCCAACTGATGGCCCAGA
G  A  S  E  E  N  Y  V  P  V  Q  L  L  Q  S  N  *

TGCAGCAGGAGGCCAGAGGACAGAGCAGAGGATCTTTCCAACCACATCTGCTGGCTCTGG

GGTCCCAGT
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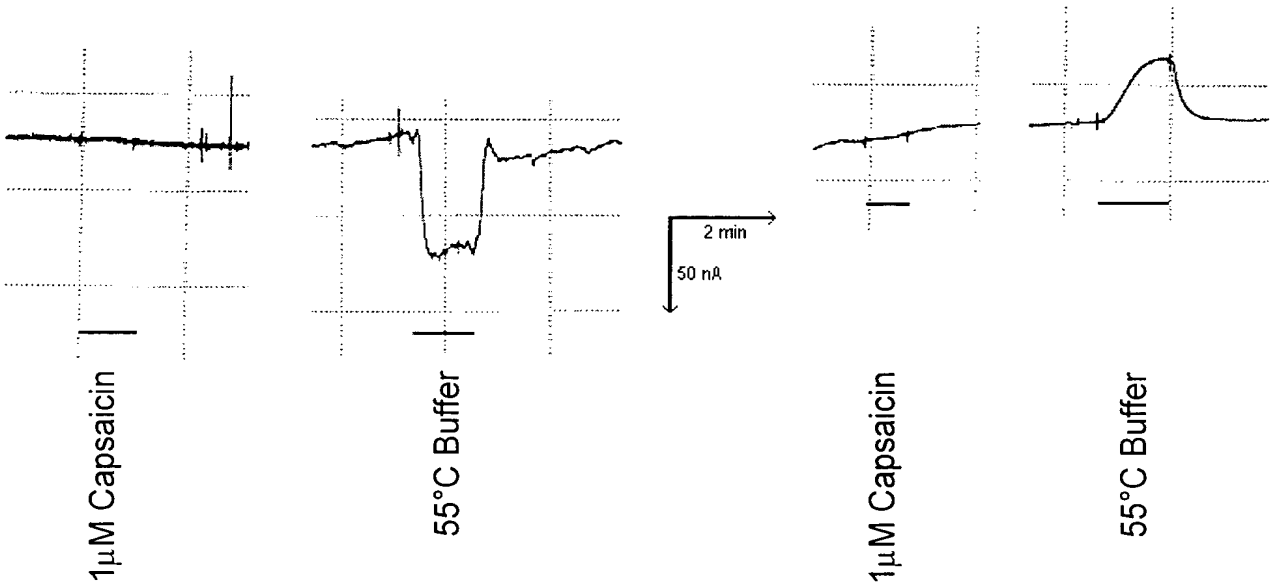
Figure 2

Effect of Elevated Temperature on Xenopus Oocytes Expressing the Human VR-L Receptor



A) VR-L Expressing Cells B) Control Cells (un-injected)

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Figure 3:

104F	CAG GCC CGG GCA TGC ACA TTG
105T	CCA GGG CGA GGA CCG GAA ATT
108F	GAC AGC TGG AGC ATC TGG AAG
109F	GAC AGC TGG AGC ATC TGG AAG
110T	CTT CCA GAT GCT CCA GCT GTC
111T	TTT GCC ACC AGA ATT CAC TGG
114F	CTC TCT TTG GCC GCT TGC ACC
115T	CCA GCA CTG AGT TCT CCT CAC
118F	GCC CTA CCG TGC AGC TTG AGG
119T	TGC CCC ACG AGG AGG TAG ATC
120F	ATG GCG ATG TGC AGA GCG CTG
121T	AGA GTC AAC CTC AAA CTA CCG
126F	GAG CTT CTC CCT GCG GTC AAG
127T	AAG GCT GCT GAA AAA GCA CTG
189F	GCT GGG CTG GCT GAA CCT GC
190T	GAG GGC AAT GAG CAT GTT G